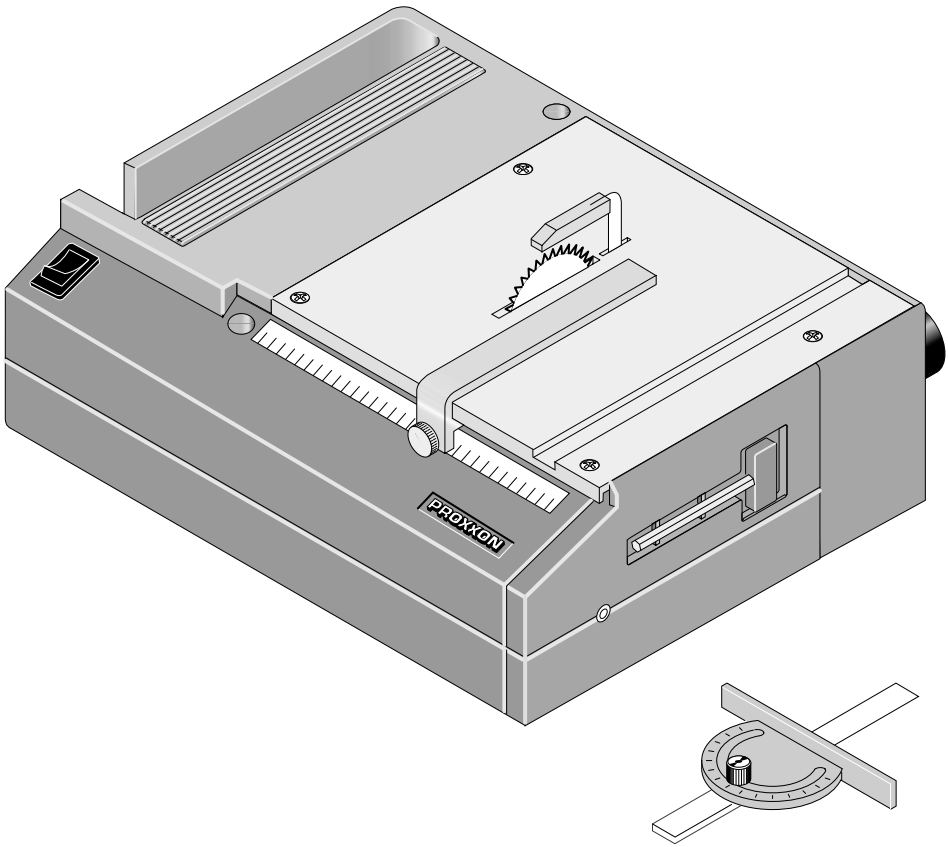
PROXXON

KS 115



Manual

PROXXON

Your device does not work properly? Please read the operating instructions again carefully. If the unit is in fact defective, please send it to:

PROX-Tech, Inc.
2555 Tate Blvd SE
PO Box 1909
Hickory, NC 28603-1909

We will respond in a prompt and reliable manner. You can also order any necessary spare parts from this address.

Important: A short description of the fault helps us to respond even more quickly. When returning a device within the warranty period, please enclose the relevant purchase receipt.

Made in Germany by PROXXON GmbH, D-54518 Niersbach, Im Spanischen 18-24

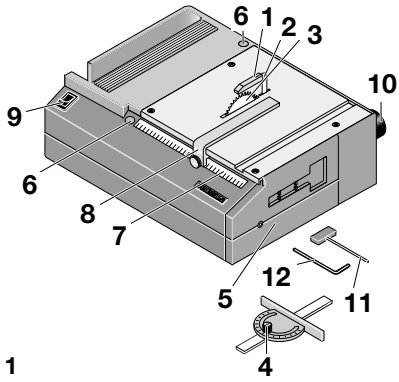


Fig. 1

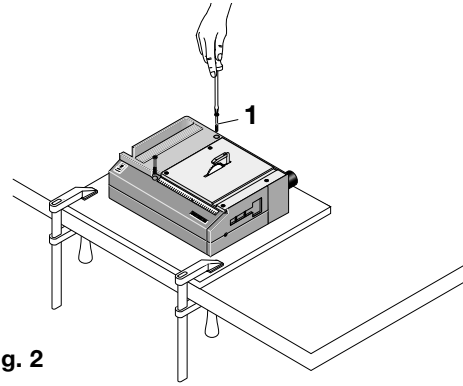


Fig. 2

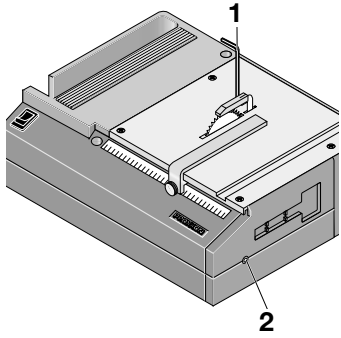
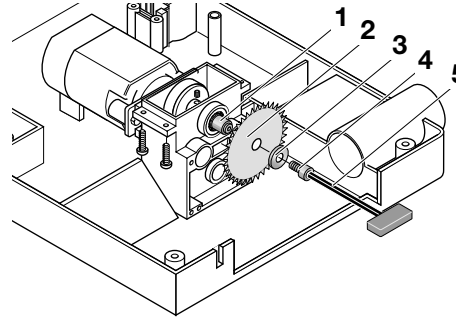


Fig. 3



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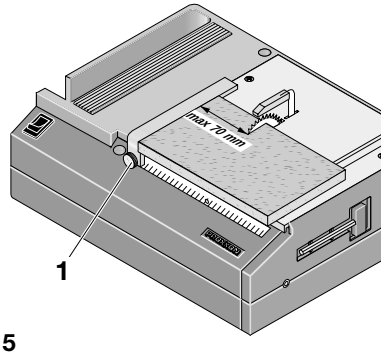

Fig. 5

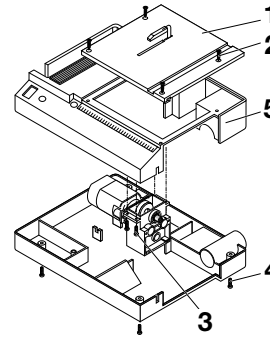

Fig. 7a

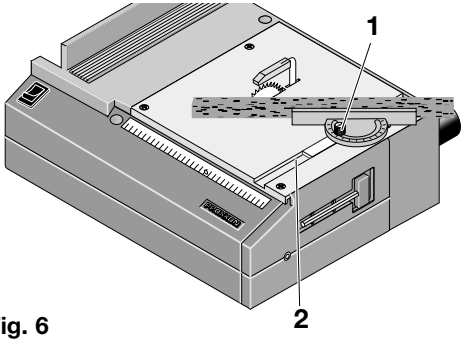

Fig. 6

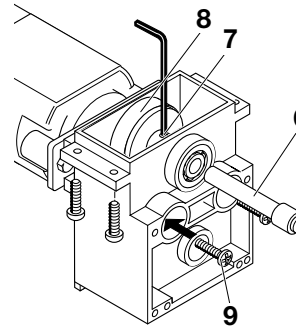

Fig. 7b

Operating Instructions
Circular saw KS 115

Foreword

Dear Customer,

The PROXXON circular saw KS 115 is the ideal device for precise, even cuts in wood, plastic or non-ferrous metals. To use the saw safely and correctly, please read the attached safety regulations and control note carefully before using the device.

This instruction manual covers:

- safety regulations
- operation and maintenance
- spare parts list

Please read carefully!

Using this instruction manual will

- **make it easier for you** to get used to the machine,
- **help prevent** faults occurring due to improper use and
- **increase** the service life of your machine.

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Please read carefully!

Using this instruction manual will

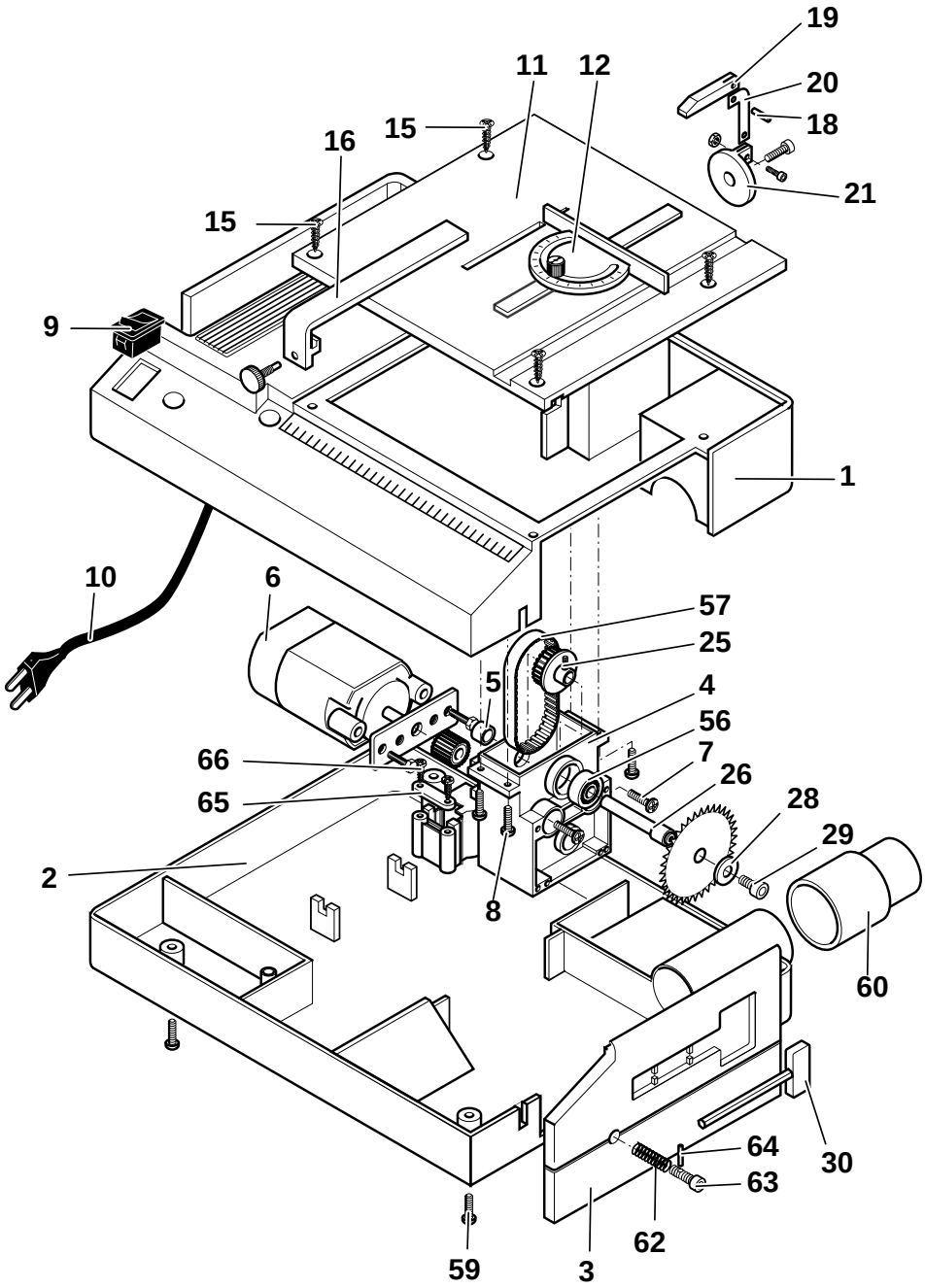
1. make it easier for you to get used to the machine
2. help prevent faults occurring due to improper use and
3. increase the service life of your machine.

General safety instructions

Read and become familiar with this entire instructions manual.

Learn the tool`s applications, limitations and possible hazards.

1. KEEP GUARDS IN PLACE and in working order.
2. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
3. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
4. DON'T USE IN DANGEROUS ENVIRONMENT. Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
5. KEEP CHILDREN AWAY. All visitors should be kept safe distance from work area.
6. MAKE WORKSHOP KID PROOF with padlocks, master switches, or by removing starter keys.
7. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was designed.
8. USE RIGHT TOOL. Don't force tool or attachment to do a job for which it was not designed.
9. USE PROPER EXTENSION CORD. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table 1 shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord. Exception No. 1: The reference to the table and the table itself may be omitted if a statement indicating the appropriate gage and length is incorporated into the instruction.Exception No. 2: The information regarding extension cords need not be provided for a permanently connected tool.
10. WEAR PROPER APPAREL. Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair. Exception: The reference to gloves may be omitted from the instructions for a grinder.
11. ALWAYS USE SAFETY GLASSES. Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
12. SECURE WORK. Use clamps or a vise to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.
13. DON'T OVERREACH. Keep proper footing and balance at all times.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Notes

14. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
15. DISCONNECT TOOLS before servicing; when changing accessories, such as blades, bits, cutters, and the like.
16. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in off position before plugging in.
17. USE RECOMMENDED ACCESSORIES. Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
18. NEVER STAND ON TOOL. Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
19. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function -- check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
20. DIRECTION OF FEED. Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
21. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF. Don't leave tool until it comes to a complete stop.

Table 1

Minimum gage for cord

Ampere Rating		Volts	Total length of cord in feet			
		120 V	25 ft.	50 ft.	100 ft.	150 ft.
		240 V	50 ft.	100 ft.	200 ft.	300 ft.
More Than	Not More Than	AWG				
0	6		18	16	16	14
6	10		18	16	14	12
10	12		16	16	14	12
12	16		14	12	Not Recommended	

Additional safety instructions

IMPORTANT

1. Ensure the workplace is tidy.
2. Check the unit for damage before use
3. (connection cable, protective devices, etc.), have defective parts replaced by qualified personnel.
4. This unit corresponds to the pertinent safety regulations. Repairs (e.g., replacement of the power supply lead) may only be performed by a qualified electrician.
5. Never work without the safety equipment fitted.
6. Do not use electrical power tools in the rain, in damp surroundings or in the vicinity of flammable liquids or gases.
7. Only use the tool when the handle is dry and free from grease.
8. Avoid contact with earthed components, e.g., pipes, radiators, ovens and refrigerators.
9. Protect the connection lead from heat and sharp edges and route it so it cannot be damaged.
10. Do not remove the plug from the socket by pulling on the cable.
11. Do not pick up the unit by the cable.
12. Keep children and third parties away from the workplace.
13. Keep tools in childsafe locations when not in use.
14. Do not overload the tool.
15. Do not use the tool to perform operations for which it is not suitable.
16. Replace blunt tools in good time.
17. Visually inspect application tools to ensure they are in good working order and suitable for the task prior to setting up the job.
18. Fasten tools securely.
19. Clean the unit thoroughly following all work.
20. Disconnect the plug from the power supply when the unit is not in use, before performing maintenance, tool replacement or repair work.
21. Only plug the unit in when the unit is switched off.
22. Always wear protective goggles (danger of tool breakage).
23. If necessary, wear a protective dust mask.
24. Only use appropriate working clothes (no loose sleeves, ties, jewellery).
25. Wear a hair net if you have long hair.
26. Only use accessories and spare parts recommended by PROXXON
27. Observe the max. permitted rotational speed.
28. If necessary, use dust extract equipment.
29. Do not use the tool when you are tired or under the influence of alcohol.
30. Keep fingers away from rotating or fast moving tools (saws, etc.).
31. Keep the operation instructions in a safe place.

Additional safety instructions

This machine is for indoor use only. Do not expose to rain or use in damp locations.

Use only accessories recommended for this circular saw . Follow the instructions that accompany accessories. Use of improper accessories may cause hazards.

Do not attempt to modify this tool or create accessories not recommended for use with this tool. Any such alternation or modification is misuse and could result in hazardous condition leading to possible serious injury.

To avoid injury from unexpected starting or electrical shock, do not plug the power cord into a power source receptacle during unpacking and assembly. This cord must remain unplugged whenever you are working on the circular saw .

If any part is missing or damaged, do not plug the circular saw in until the missing or damaged part is replaced, and assembly is complete. To avoid electrical shock, use only identical replacement parts when servicing grounded tools.

For your safety, never connect the plug to the power source receptacle until the assembly and adjustment steps are completed, and you have read and understood the safety and operating instructions.

To avoid injury from accidental start, make sure the switch is in the OFF position and the plug is not connected to the power source receptacle before changing any parts or tools (i. e. saw blade)

To avoid injury from accidental start, make sure the switch is in the OFF position and the plug is not connected to the power source receptacle before making any adjustments.

For your own safety, do not plug the tool into the power source receptacle or insert the switch key, until the parts are correctly installed and adjustments have been made.

For your own safety, use only saw blades sized and recommended for this circular saw . Follow the instructions that accompany the saw blades.

To avoid fire or toxic reaction, never use gasoline, naphtha, acetone, lacquer thinner, or similar highly volatile solvents to clean the circular saw .

Do not allow brake fluids, gasoline, or penetrating oils to come in contact with the plastic parts. They contain chemicals that can damage or destroy plastics.

Only qualified service technicians should do all electrical or mechanical repairs.

When servicing use only PROXXON replacement parts. Use of any other parts may create a hazard or cause product damage.

Any attempt to repair or replace electrical parts on this circular saw may create a hazard unless repair is done by a qualified service technician. Repair service is available at your PROXXON service center (You find the address at the back of this manual).

Safety instructions for all double insulated tools:

1. Replacement Parts:
   When servicing use only identical replacement parts.

2. Polarized Plugs
   To reduce the risk of electric shock, this equipment has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

Additional safety instructions for table saws:

WARNING!

For Your Own Safety Read Instruction Manual Before Operating Saw!

1. Wear eye protection.
2. Use sawblade guard and spreader for every operation for which it can be used, including all through sawing.
3. Keep hands out of the line of saw blade.
4. Use a pushstick when required.
5. Know how to reduce risk of kickback
6. Do not perform any operation freehand.
7. Never reach around or over saw blade.

Note:

Keep this instruction manual in an easily accessible place. Only operate this machine if you are qualified to do so and follow the guidelines in this instruction manual.

PROXXON does not accept responsibility for the safe functioning of the machine:

- if it is handled in a manner which constitutes improper use,
- if it is used for other purposes which are not specified in the instruction manual,
- if the safety regulations are not observed.

Warranty claims are invalid if

1. the machine is incorrectly operated,
2. the machine has not been sufficiently maintained.

In the interests of your safety, please always observe the safety regulations. Only use genuine PROXXON spare parts. We reserve the right to make further alterations for the purpose of technical progress. We wish you every success with your machine.

Description of the machine

The KS 115 cuts wood and similar materials up to 8 mm, plastics up to 3 mm and non-ferrous metals up to 1.5 mm.

The basic equipment includes

- a saw blade
- a longitudinal stop
- an angle stop
- two fixing bolts
- a rubber adapter for vacuum cleaner connection
- two hexagon keys

We recommend original PROXXON replacement saw blades.

General view Fig 1

1. Saw blade protection
2. Splitting cotter
3. Saw blade
4. Angle stop
5. Sliding door
6. Holes for attachment
7. Adjusting scale
8. Longitudinal stop
9. On/off switch
10. Pipe union for vacuum cleaner
11. 3 mm hexagon key
12. 2 mm hexagon key

Technical data:

Dimensions

Bearing surface	160x160 mm
Max. cutting diameter	12 mm
Max. saw blade	Ø 58 mm

Motor

Rotational speed	8.000/min
Voltage	150 V AC - 60Hz
Performance	85 watt
Generated noise	≤ 70dBA
Weight	1.8 kg

Protective insulation safety class system 2

Only for indoor use!

Mounting and starting the machine:

Before start-up:

Warning!

For your own safety, do not plug the tool into the power source receptacle, until the parts and the saw are correctly installed and adjustments have been made.

The circular saw must be fastened onto a sturdy wooden board using the enclosed fixing bolts 1 (Fig.2) The board can then be fixed onto a sturdy table using two fastening clamps.

Before start-up:

Replacing the saw blade

Important

Before changing the saw blade, pull out the mains plug.

1. Open the sliding door 2 (Fig.3) with the hexagon key.
2. Introduce 2 mm hexagon key 1 into the work desk block and the drive shaft.
3. Using the 3 mm hexagon keys 5 (Fig. 4) unscrew screw 4, remove ring 3 and saw blade 2.
4. Place the new saw blade on the sawing shaft 1, replace ring 3, screw in screw 4 and tighten.

Note:

The choice of the saw blade will depend on the material to be sawed.

Respect the direction of rotation as shown on the Proxxon-Saw blades.

Connecting the vacuum cleaner

For longer periods of operation, we recommend connecting the saw to a vacuum cleaner. To this end, connect the vacuum cleaner at the connection tube 10 (Fig. 1) using the attached rubber adapter.

Working with the circular saw

Warning!

For your own safety, do not plug the tool into the power source receptacle, until the parts are correctly installed and adjustments have been made.

Warning:

Secure and exact work is only possible if the machine is properly fastened!

Important

When working with the circular saw, please observe the following additional safety notes.

1. When working directly on the saw blade, use the sliding stick.
2. Never work without the splitting cotter or without the saw blade cover .
3. In case of wear at the sawing gap, replace the entire table top.
4. Only work on work pieces, for which the desk size provides a safe base, so that tilting of the work piece is prevented.
5. Only use faultless saw blades.
6. Replace blunt of saw blades in good time.
7. Do not leave the device unsupervised.

Note:

This is a circular saw for fine work! Work with moderate rate of feed and pay attention to the speed drop of the saw blade!

Sawing with the longitudinal stop

Release the clamping screw 1 (Fig. 5), set stop and again retighten the clamping screw (the max. work piece width amounts to 70 mm).

Sawing with the angle stop

Release the clamping screw 1 (Fig. 6), set the angles according to the scale and retighten the clamping screw. Then push the work piece lightly against the stop and guide the stop along groove 2.

Maintenance

Important

Pull out the mains plug prior to commencing all maintenance and repair work.

Warning!

Turn switch OFF and always remove plug from power source before making any adjustments or repairs.

If any part is missing or damaged, do not plug the tool in until the missing or damaged part is replaced, and assembly is complete. To avoid electrical shock, use only identical replacement parts when servicing double insulated tools.

Warning!

To avoid fire or toxic reaction, never use gasoline, naphtha, acetone, lacquer thinner, or similar highly volatile solvents to clean the circular saw.

Do not allow brake fluids, gasoline, or penetrating oils to come in contact with the plastic parts. They contain chemicals that can damage or destroy plastics!

All electrical or mechanical repairs (expect the changing of the belt) should be done only by qualified service technicians.

When servicing use only PROXXON replacement parts.

Use of any other parts may create a hazard or cause product damage.

Any attempt to repair or replace electrical parts on this tool may create a hazard unless repair is done by a qualified service technician.

Repair service is available at your PROXXON service center (You find the address at address at the back of this manual).

Replacing the toothed belt

If the toothed belts becomes worn it is possible to change it yourself. You can order replacement belts from the PROXXON central service (address on the rear side of the instructions).

Warning:

Turn switch OFF and always remove plug from power source before making any adjustments, repairs or maintenance!

1. Remove mains plug.
2. Remove the saw blade.
3. Unscrew screws 2 and 4 (Fig. 7a).
4. Unscrew screws 3 and remove the work top from the transmission.
5. Release the threaded pin 7 (Fig. 7b) using 2 mm hexagon key and pull out the shaft 6.
6. Release the motor screws 9 and remove the motor from the transmission.
7. Remove the toothed washer 8 and insert a new toothed belt.
8. Install the toothed washer 8 with toothed belts in the transmission casing.
9. Insert the toothed belts on the motor pinions and reconnect the motor to the transmission
10. The rest of the assembly follows in reverse order.

Notes

Notes

Spare parts list

Please order spare parts in writing from PROXXON Central Service (Address on back of instruction manual)

Table saw KS 115

Article No. 37 006

Part No.:	Designation
37006-01	Housing upper part
37006-02	Housing lower part
37006-03	Sliding door
37006-04	Gear unit housing
37006-05	Bearing bushing
37006-06	Motor with fastening plate and pinion
37006-07	Motor fixing bolt
37006-08	Gear unit fixing bolt
37006-09	Switch
37006-10	115 Volt connection lead with plug
37006-11	Work platform
37006-12	Angular stop, complete
37006-15	Bolt for work platform
37006-16	Longitudinal stop, complete
37006-18	Pin
37006-19	Saw blade cover
37006-20	Splitting cotter
37006-21	Splitting cotter mounting complete with screws
37006-25	Toothed belt pulley with set screw
37006-26	Shaft
37006-28	Pulley
37006-29	Fixing bolt for saw blade
37006-30	Allen key
37006-56	Ball bearing
37006-57	Toothed belt
37006-59	Fixing bolt
37006-60	Vacuum hose connection adapter
37006-62	Coil spring
37006-63	Lock
37006-64	Pin
37006-65	Strain relief
37006-66	Strain relief screw
37006-97	Packaging
37006-99	Operating instructions (incl. safety regulations)